TUSI HAYTHAM BIO LIMITED
Chemistry for a Greener Planet

Technical Data Sheet

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IONEXA™ Series – Ionexa FES 31

Iron (Fe++,Fe^{3+}) Focused Sequestering Agent

Manufacturer: Tusi Haytham Bio Limited

Product Description:
Ionexa FES 31 is a specialized sequestering agent designed specifically to target and bind iron ions (Fe++, Fe^{3+}) in textile processing baths.
It effectively prevents iron-induced catalysis of bleaching agents, reduces discoloration, and inhibits scale and deposit formation caused by iron contaminants in water and process chemicals.

Key Performance Properties:

- **High affinity and selectivity for iron (Fe^{3+}) ions.**
- **Prevents iron-catalyzed peroxide decomposition in bleaching processes.**
- **Reduces staining and fabric discoloration due to iron contamination.**
- **Enhances brightness and uniformity in dyeing and finishing.**
- **Stable over a broad pH range and temperature conditions.**
- **Compatible with other wet processing auxiliaries.**

Typical Properties:

Property	Specification
Appearance	Clear to pale yellow liquid
pH (25 °C)	4-5
Ionic Nature	Anionic
Water Miscibility	Fully soluble
Stability	Stable across pH 4–10 and temperatures up to 80 °C

Application:

- **Add Ionexa FES 31 to process baths where iron contamination is a concern.**
- **Typical dosage: 0.5 – 1.0 g/L depending on iron content and process requirements.**
- **Used in scouring, bleaching, dyeing, and finishing processes.**
- **Optimize dosage through laboratory trials for best results.**

Precautions:

- **Avoid mixing with strong acids or incompatible substances.**
- **Use appropriate protective equipment during handling.**
- **Store in tightly sealed containers to maintain product integrity.**

Packing Size:

Available in 25 kg, 60 kg, and 120 kg HDPE drums.

Storage:

- **Store in a cool, dry, well-ventilated area below 40 °C.**
- **Shelf life of 12 months in unopened original packaging.**
- **“Best use before end” date printed on the product label.**

Issued by:
Tusi Haytham Bio Limited – Technical Division
Product: IONEXA™ Series – Ionexa FES 31
Category: Iron-Focused Sequestering Agent